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1 [Wireless Andrew: building a high speed, campus-wide wireless data network](#)

Bernard J. Bennington, Charles R. Bartel

January Mobile Networks and Applications, Volume 6 Issue 1
2001

Publisher: Kluwer Academic Publishers

Full text available: [pdf\(159.87](#)

[KB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)

Keyw ords: Andrew, WaveLAN, integration, wireless network


2 Experience with a low power wireless mobile computing platform



Vijay Raghunathan, Trevor Pering, Roy Want, Alex Nguyen, Peter Jensen

August 2004 I SLPED '04: Proceedings of the 2004 international symposium on Low power electronics and design

Publisher: ACM

Full text available:  [pdf\(315.45 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

A detailed power analysis of a multi-radio mobile platform highlights the complex tradeoffs between the computation, storage, and communication subsystems. The particular mobile device, which does not include an LCD or other on-board display, can be ...

Keywords: mobile computing, power management, wireless systems

3 Securing wireless data: system architecture challenges



Srivaths Ravi, Anand Raghunathan, Nachiketh Potlapally

October 2002 I SSS '02: Proceedings of the 15th international symposium on System Synthesis

Publisher: ACM

Full text available:  [pdf\(172.35 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Security is critical to a wide range of current and future wireless data applications and services. This paper highlights the challenges posed by the need for security during system architecture design for wireless handsets, and provides an overview ...

Keywords: 3DES, AES, DES, IPSec, RSA, SSL, WTLS, decryption, design methodology, embedded system, encryption, handset, mobile computing, performance, platform, security, security processing, system architecture, wireless communications

4 Modeling of collision avoidance protocols in single-channel multihop wireless networks

Yu Wang, J. J. Garcia-Luna-Aceves

September 2004 Wireless Networks, Volume 10 Issue 5

Publisher: Kluwer Academic Publishers

Full text available:  [pdf\(271.77 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

Although there has been considerable work on the performance evaluation of collision avoidance schemes, most analytical work is confined to single-hop ad hoc networks or networks with very few hidden terminals. We present the first analytical model to ...


Keywords: IEEE 802.11, ad hoc networks, analytical modeling, collision avoidance, medium access control, simulation evaluation

5 The shared wireless infostation model: a new ad hoc networking paradigm (or where there is a whale, there is a way)

Tara Small, Zygmunt J. Haas

June 2003 MobiHoc '03: Proceedings of the 4th ACM international symposium on Mobile ad hoc networking & computing

Publisher: ACM

Full text available:  [pdf\(389.27 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

In wireless ad hoc networks, capacity can be traded for delay. This tradeoff has been the subject of a number of studies, mainly concentrating on the two extremes: either minimizing the delay or maximizing the capacity. However, in between these extremes, ...



Key words: SWIM, ad hoc, animal tag, capacity-delay tradeoff, disease model, infostation, network

6 802.11b access point mapping

Simon Byers, Dave Kormann

May 2003 Communications of the ACM, Volume 46 Issue 5

Publisher: ACM

Full text available:  [pdf\(151.86 KB\)](#)  [html\(30.48 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)


Considering some of the practical issues encountered when finding and mapping wireless network access points.

7 Blocking-aware processor voltage scheduling for real-time tasks

Fan Zhang, Samuel T. Chanson

May 2004 ACM Transactions on Embedded Computing Systems (TECS), Volume 3 Issue 2

Publisher: ACM

Full text available:  [pdf\(409.25 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

As mobile computing is getting popular, there is a growing need for techniques that minimize energy consumption on battery-powered mobile devices. Processor voltage scheduling can effectively reduce processor energy consumption by lowering the processor ...

Key words: Dynamic power management, non-preemptible sections, power-aware scheduling, real-time systems


8 Wireless Coyote: a computer-supported field trip



Wayne C. Grant

May Communications of the ACM, Volume 36 Issue 5
1993

Publisher: ACM

Full text available:  [pdf\(3.08 MB\)](#)

Additional Information: [full citation](#), [cited by](#), [index terms](#), [review](#)


9 Robotics-based location sensing using wireless ethernet



Andrew M. Ladd, Kostas E. Bekris, Algis Rudys, Guillaume Marceau, Lydia E. Kavraki, Dan S. Wallach

September 2002 MobiCom '02: Proceedings of the 8th annual international conference on Mobile computing and networking

Publisher: ACM

Full text available:  [pdf\(235.70 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

A key subproblem in the construction of location-aware systems is the determination of the position of a mobile device. This paper describes the design, implementation and analysis of a system for determining position inside a building from measured ...

Keywords: 802.11, localization, mobile systems, probabilistic analysis, wireless networks


10 Electronic shepherd - a low-cost, low-bandwidth, wireless network system



Bjørn Thorstensen, Tore Syversen, Trond-Are Bjørnvold, Tron Walseth

June 2004 MobiSys '04: Proceedings of the 2nd international conference on Mobile systems, applications, and services

Publisher: ACM

Full text available:  [pdf\(409.68 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

This paper reports a new novel low-cost, wireless communication network system, called the "Electronic Shepherd" (ES). The system is innovative in the way that it supports flock behavior, meaning that a flock leader monitors the state of the other elements ...

Keywords: GPRS, GPS, animal tracking, cost-effective communication, low-power equipment, rural computing, short-range communication, wireless network


11 [Security protocol for IEEE 802.11 wireless local area network](#)



Se Hyun Park, Aura Ganz, Zvi Ganz

September 1998 Mobile Networks and Applications, Volume 3 Issue 3

Publisher: ACM

Full text available:  [pdf\(263.66 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

As Wireless Local Area Networks (WLANs) are rapidly deployed to expand the field of wireless products, the provision of authentication and privacy of the information transfer will be mandatory. These functions need to take into account the inherent limitations ...

12 [Modeling wireless shadow networks](#)



Filip De Turck, Aurel A. Lazar

October 2004 MSWiM '04: Proceedings of the 7th ACM international symposium on Modeling, analysis and simulation of wireless and mobile systems

Publisher: ACM

Full text available:  [pdf\(587.93 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In case of natural disasters or intentional attacks, telecommunication networks often get heavily damaged and current resilience schemes have proven to be insufficient for rapid recovery of telecommunication services from catastrophic failures. We consider ...

Keywords: ad hoc networking, directional antennas, node location, throughput estimation, wireless recovery networks


13 [Opportunistic routing in multi-hop wireless networks](#)



Sanjit Biswas, Robert Morris

January 2004 ACM SIGCOMM Computer Communication Review, Volume 34 Issue 1

Publisher: ACM

Full text available:  [pdf\(202.98 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

This paper describes Extremely Opportunistic Routing (ExOR), a new unicast routing technique for multi-hop wireless networks. ExOR forwards each packet through a sequence of nodes, deferring the choice of each node in the sequence until after the previous ...

14 InfoPoint: A Device that Provides a Uniform User Interface to Allow Appliances to Work Together over a Network

Naohiko Kohtake, Jun Rekimoto, Yuichiro Anzai

January Personal and Ubiquitous Computing, Volume 5 Issue 4
2001

Publisher: Springer-Verlag

Full text available:  [pdf\(563.67 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [cited by](#), [index terms](#)

This paper proposes a new hand-held device called "InfoPoint" that allows appliances to work together over a network. We have applied the idea of "drag-and-drop" operation as provided in the GUIs of PC and workstation desktop ...


15 Contextual information access and storytelling in mixed reality using hypermedia



Luis Romero, JORGE SANTIAGO, NUNO CORREIA

July Computers in Entertainment (CIE), Volume 2 Issue 3
2004

Publisher: ACM

Full text available:  [pdf\(480.08 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

This article describes gaming and storytelling activities in a mixed environment that integrates the real and virtual worlds, uses an augmented reality paradigm, and is supported by a structuring and presentation framework for use in context-aware mixed-reality ...

Keywords: hypermedia interfaces, hypermedia model, mixed and augmented reality, mobile gaming and storytelling

16 On proxy agents, mobility, and web access

Anupam Joshi

December Mobile Networks and Applications, Volume 5 Issue 4
2000

Publisher: Kluwer Academic Publishers

Full text available:  [pdf\(201.52 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

With the emerging need for ubiquitous access to information, web access from mobile clients is gaining increasing importance. Unfortunately, the underlying protocols of the web are not designed to support operations from a resource poor platform in a ...


17 End-to-end throughput and delay assurances in multihop wireless hotspots



Kuang-Ching Wang, Parameswaran Ramanathan

September 2003 WMASH '03: Proceedings of the 1st ACM international workshop on Wireless mobile applications and services on WLAN hotspots

Publisher: ACM

Full text available:  [pdf\(283.18 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Next generation Wireless Local Area Networks (WLAN's) are likely to require multihop wireless connections between mobile nodes and Internet gateways to achieve high data rates from larger distances. The paper addresses the challenges in concurrently ...

Key words: IEEE 802.11, medium access, proportional differentiation, quality of service, scheduling


18 Health aspects of wireless communication: personal wireless communication radiation and the eye lens



James C. Lin

July 2003 ACM SIGMOBILE Mobile Computing and Communications Review, Volume 7 Issue 3

Publisher: ACM

Full text available:  [pdf\(61.67 KB\)](#)

Additional Information: [full citation](#), [references](#)


19 Improving web browsing performance on wireless pdas using thin-client computing



Albert M. Lai, Jason Nieh, Bhagyashree Bohra, Vijayarka Nandikonda, Abhishek P. Surana, Suchita Varshneya

May 2004 WWW '04: Proceedings of the 13th international conference on World Wide Web

Publisher: ACM

Full text available:  [pdf\(433.53 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Web applications are becoming increasingly popular for mobile wireless PDAs. However, web browsing on these systems can be quite slow. An alternative approach is handheld thin-client computing, in which the web browser and associated application logic ...


Key words: thin-client computing, web performance, wireless and mobility

20 Efficient web browsing on handheld devices using page and form summarization



January 2002 ACM Transactions on Information Systems (TOIS), Volume 20 Issue 1

Publisher: ACM

Full text available:  pdf(4.47 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

We present a design and implementation for displaying and manipulating HTML pages on small handheld devices such as personal digital assistants (PDAs), or cellular phones. We introduce methods for summarizing parts of Web pages and HTML forms. Each Web ...

Keywords: PDA, Personal digital assistant, WAP, WML, forms, handheld computers, mobile computing, summarization, ubiquitous computing, wireless computing





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